Docket No.: H1647

CLAIMS

What is claimed is:

1. A method of fabricating a photomask that facilitates accurate measurement of the photomask critical dimension, comprising the steps of:

transferring a first pattern on a substrate in a first area;

transferring at least one test pattern on the substrate outside of the first area; and

attaching a pellicle to the substrate, wherein the pellicle covers the first area, but does not cover the at least one test pattern.

- 2. The method of claim 1, further comprising the step of duplicating a portion of the first pattern as the test pattern.
- 3. The method of claim 2, wherein the step of duplicating a portion of the first pattern as the test pattern includes using optical proximity correction in the test pattern.
- 4. The method of claim 3, wherein the step of using optical proximity correction includes using shapes selected from the group consisting of serifs, hammerheads and scattering bars.
- 5. The method of claim 1, further comprising the step of transferring the first pattern and the at least one test pattern substantially simultaneously on the substrate.
- 6. The method of claim 1, further comprising the step of forming the first pattern and the at least one test pattern under substantially the same conditions.
- 7. A photomask that facilitates accurate measurement of the photomask critical dimension, comprising:

Docket No.: H1647

a substrate;

- a first pattern formed on the substrate;
- at least one test pattern formed on the substrate; and
- a pellicle attached to the substrate, wherein the pellicle is not attached over the at least one test pattern.
- 8. The photomask of claim 7, wherein the test pattern is derived from a portion of the first pattern.
- 9. The photomask of claim 7, wherein the test pattern includes optical proximity correction.
- 10. The photomask of claim 9, wherein the optical proximity correction includes shapes selected from the group consisting of serifs, hammerheads and scattering bars.
- 11. The photomask of claim 7, wherein the photomask is a binary chrome-on-glass mask.
- 12. The photomask of claim 7, wherein the photomask is a phase shifting mask.
- 13. A method of monitoring a critical dimension of a photomask including a substrate having a first pattern in a first area, a test pattern in a second area outside of the first area, and a pellicle attached to the substrate which covers the first area but does not cover the second area, wherein a critical dimension of the test pattern is similar in magnitude to a critical dimension of the first pattern, the method comprising the steps of:

measuring the critical dimension of the test pattern at a time when the pellicle is attached to the substrate; and

estimating the critical dimension of the first pattern based on the measuring step.